Kansas Department of Health and Environment
Division of Environment
Bureau of Air and Radiation

STATIONARY INTERNAL COMBUSTION ENGINES

1) Source ID Number :_____

2) Company/Source Name:_____

3) Type of Engine: Turbine_____ ; Reciprocating _____ ; Other_____

4) Engine Manufacturer :_____
Model No.:_____
Date of Manufacture: _____
Serial No.: _____

5) Use of Engine: Electric power generation ___ ; Compressor ___ ; Pump___ ; Other - describe_____

6) Maximum Brake horsepower at continuous rating: _____ BHP
Normal operating engine speed: _____ RPM
Rated Brake Horsepower at normal operating RPM: _____ BHP
or
Maximum Generator Nameplate Capacity: _____kW
Maximum design heat input rate: _____ BTU/hr

7) Operating schedule: _____ hrs per year

8) Date of Installation: _____
Date of Last modification: _____

TURBINES

9) Type of Gas Turbine: Simple cycle _____ ; Co-generation _____ ; Regenerative _____ ; Combined cycle_____

10) Fuel data for all the different types of fuel to be used :
a) Fuel Type _____ ; Sulfur content % by weight _____ ;
Lower heating value _____ BTU per cu ft; **or** _____ BTU per lb; **or** _____ BTU per gallon
b) Fuel Type _____ ; Sulfur content % by weight _____ ;
Lower heating value _____ BTU per cu ft; **or** _____ BTU per lb; **or** _____ BTU per gallon
c) Fuel Type _____ ; Sulfur content % by weight _____ ;
Lower heating value _____ BTU per cu ft; **or** _____ BTU per lb; **or** _____ BTU per gallon

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(cont.)

11) Heat recovery unit or steam generator unit installed? Yes ☐; No ☐
Supplementary fired ? Yes ☐; No ☐ If yes, type of fuel used: _____
Capacity of the burner _____ gals per hr
Fuel heating value _____ BTU per cu ft or gal
Sulfur content of fuel by weight _____ %; Please attach complete supplementary fuel oil/distillate analysis.

12) Emission control system(s) used: Water injection_____ ; Steam injection_____ ;
Selective Catalytic reduction with Water injection _____ ; Selective catalytic reduction _____ ;
Describe Selective Catalytic emission reduction control installed:_____
Manufacturer's name:_____ Model No.: _____

POLLUTANT	MANUFACTURER'S REDUCTION EFFICIENCY %

13) Did construction, modification, or reconstruction commence after October 3, 1977? Yes☐; No ☐
If yes, this facility may be subject to NSPS, 40 CFR 60, Subpart GG.

RECIPROCATING ENGINES

14) Engine design details:
Number of cylinders _____
Aspiration: Normal _____ ; Turbo charged _____
Ignition: Spark _____ ; Compression _____
Design class 2 cycle lean burn _____ ; 4 cycle lean burn _____ ; 4 cycle rich burn _____

15) 2 or 4 cycle lean burn with combustion modification, increased air/fuel ratio and intercooling ?
Yes☐; No☐
If yes, attach the guaranteed performance of the conversion supplier **or** the actual monitored performance, and the engine operating conditions for the guarantee of performance.

16) Type of integral emission control: Selective Catalytic Reduction _____ ;
Non Selective Catalytic Reduction _____ ; Combustion Reduction _____(Describe)_____; None _____

17) Fuel(s): Gasoline _____ ; Diesel _____ ; Natural Gas _____ ; Dual fuel _____

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18) Fuel Heating Value: Gasoline _____ BTU per gal; Diesel _____ BTU per gal;
Natural Gas _____ BTU per cu ft ; Dual fuel mix _ ____ % diesel _____ % natural gas
Sulfur content of diesel by weight _____ %

APPLICABLE TO ALL STATIONARY INTERNAL COMBUSTION ENGINES

19) Enclose available engine manufacturer's emissions data.

20) For emission control equipment, use the appropriate CONTROL EQUIPMENT form and duplicate as needed. Be sure to indicate the emission unit that the control equipment is affecting.